

We claim:

1. A flashlight comprising:

a) a flashlight head having a light emitting object positioned therein;

5        b) an electrically conducting battery chamber adapted to be removably attached to said flashlight head, said battery chamber adapted to receive and make an electrical connection with at least one cell; and

10        c) a wave spring positioned between said electrically conducting battery chamber and said flashlight head whereby said wave spring is at least partially compressed when said battery chamber is attached to said flashlight head and an electrical connection is made between said at least one cell positioned in said battery chamber and said light emitting object through said  
15        wave spring.

2. A flashlight according to claim 1 wherein said flashlight head further comprises a reflector.

3. A flashlight according to claim 1 wherein said light emitting object is an incandescent bulb.

20        4. A flashlight according to claim 1 wherein said light emitting object is a solid state device.

5. A flashlight according to claim 5 wherein said light emitting object is a light emitting diode (LED).

25        6. A flashlight according to claim 6 wherein said light emitting object is a high intensity white LED light source.

7. A flashlight according to claim 1 wherein said light emitting object comprises plural LED light sources.

8. A flashlight according to claim 1 wherein said battery chamber makes an electrical connection with a negative terminal of a cell through a negative terminal coil spring positioned in said electrically conducting battery chamber.

9. A flashlight according to claim 1 wherein said flashlight head further comprises a positive terminal coil spring located in a central portion thereof, said positive terminal coil spring making an electrical connection between a positive terminal of a cell positioned in said battery chamber and said light emitting object.

10. A flashlight according to claim 1 wherein said flashlight head said battery chamber are each threaded and said flashlight head is removably attached to said battery chamber by screwing the flashlight head to the battery chamber.

11. A flashlight according to claim 1 wherein said flashlight head is removably attached to said battery chamber by means of a push and twist telescoping latch mechanism.

12. A flashlight according to claim 1 further comprising a metal ring member electrically connected to said light emitting object and in electrical contact with said wave spring.

13. A flashlight according to claim 1 further comprising a circuit board member electrically connected to said light emitting object and in electrical contact with said wave spring.

14. A flashlight according to claim 13 wherein said circuit board member electrically connected to said light emitting object and is connected to a negative terminal of a cell in said battery chamber through said wave spring.

5 15. A flashlight according to claim 14 wherein said circuit board member is electrically connected to a positive terminal of a cell in said battery chamber through a coil spring.

16. A flashlight according to claim 14 wherein said circuit board member provides a constant current to said light emitting  
10 object.

17. A flashlight according to claim 1 further comprising an O-ring provided between said battery chamber and said flashlight head to provide a water resistant seal.

18. A flashlight according to claim 1 further comprising a  
15 flange on said battery chamber to prevent said chamber from being inserted to far into the flashlight head when attached thereto.

19. A flashlight according to claim 1 wherein said flashlight head is fabricated from a high strength polycarbonate material.

20 20. A flashlight according to claim 1 wherein said flashlight head is fabricated from an electrically conducting material.

21. A flashlight according to claim 20 wherein said flashlight head is fabricated from one of stainless steel and  
25 aluminum.

22. A flashlight according to claim 1 wherein said electrically conducting battery chamber is fabricated from one of stainless steel and aluminum.